





PUBLIC MEETING PRESENTATION



Study Purpose



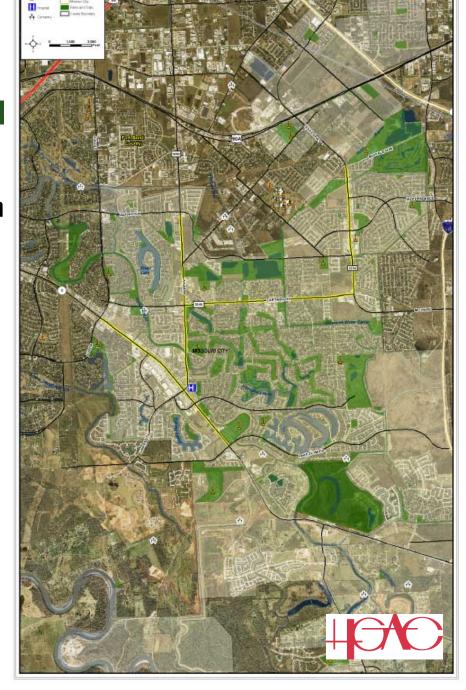
To Develop a Plan that will support safe pedestrian and bicycle access and mobility in the Study Area.





Study Area

- □ The Study Area includes portions of:
 - FM 2234 (Texas Parkway) Buffalo Run to Cartwright Road
 - FM 3345 (Cartwright Road) Texas
 Parkway to Murphy
 - FM 1092 (Murphy Road) Lexington to SH6
 - □ SH 6 Dulles to Lake Olympia
 Parkway





Scope of Services



- □ Develop Sponsors, Stakeholders and Vision Statement
- □ Needs Assessment
- □ Conceptual Plan
- □ Public Outreach and Coordination
- □ Implementation Plan







Vision, Goals & Objectives



- □ Working in conjunction with the Parks and Trails Master Plan, and the Missouri City Comprehensive Plan.
- To create a safe, comfortable and pedestrian/bicycle-friendly environment that encourages people of all ages to walk and bike for everyday transportation and enjoyment.
- □ Goals include:
 - Institutionalize pedestrian and bicycle transportation
 - Improve pedestrian and bicycle safety
 - Increase the level of commuting via pedestrian walkways and bikeways
 - Fund, create and maintain a functional pedestrian and bicycle transportation system
 - Establish and maintain safe standards and guidelines
 - Integrate and coordinate multiple modes of transportation





Data Collected



- □ Traffic count data
- □ Bicycle and pedestrian crash data
- □ Bicycle and pedestrian count data
- □ Origin and destination information
- □ Roadway attributes and characteristics
- □ Bicycle and pedestrian facility data
- □ Arial mapping and GIS spatial data layers
- □ Existing plans and relevant documents



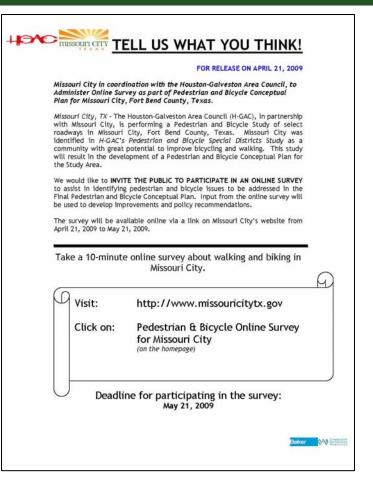




Online Survey



- □ Online survey available between April 21, and June 5, 2009 (extended date).
- □ Administered through <u>www.surveymonkey.com</u>.
- Gathered local knowledge and input on deficiencies and opportunities in Study Area.







Online Survey



- □ 210 responses received
- Over three-quarters (77%) of the respondents were residents of Missouri City.
- \square Approximately 85% live within the Study Area.
- Over half of the survey respondents travel by motor vehicle on the Study Area roadways on a frequent basis.
- □ SH 6 is the most frequently traveled by motor vehicle by respondents (92%), followed by Murphy Road (83%), Cartwright Road (68%) and Texas Parkway (58%).





Crash Analysis (2005-2008)



- □ 32 Bicycle/Pedestrian involved crashes
 - 8 Bicyclists, 24 Pedestrians
- □ 6 Fatal Crashes, all pedestrians
- ☐ More than half (18) were 18 years old and under
- □ 13 crashes in school areas with 3 fatalities (4 inside Study Area)
- ☐ 7 of the 8 bicyclists were not wearing a helmet
- 9 crashes occurred on Study Area roadways (SH 6, Murphy Road, Cartwright Road, and Texas Parkway)





Crash Density





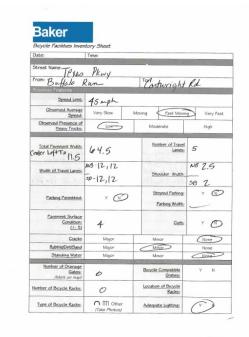




Bicycle/Pedestrian Network Analysis



- □ Analysis of collected data
- □ Field inventory of existing facilities



Existing Striped Bioycle Lanes:	Y	Signed:	Y Ø
Width of Broycle Lanes:		Condition of Striping:	Good Fair Poi
Signed Bicycle Route:	Y M	Start:	End:
Paved Path:	Y N	Signed:	Y (P)
Width		Start:	End:
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SH 6 (Austin/Dulles to Lake Olympia)



- \square AADT = 51,901 (2008) 3 Intersection Average
- □ Speed Limit = 50 MPH
- □ Total Pavement Width = 107'
 - Six 12' Travel Lanes, One 16.5' Center Left Turn Lane
 - **□** 9.5' Shoulders
- **□** BICYCLE COMPATIBLE
- □ Partial Sidewalks at 6' Wide in Excellent Condition
- □ 40' to 43' Grass Buffer between Sidewalk and Shoulder







FM 1092 — Murphy Road (Lexington to SH 6) PERISTRIAN PROPERTY AND ADDRESS OF THE PROPERTY OF T



- AADT = 32,652 (2008) 2 Intersection Average
- ☐ Speed Limit = 50 MPH
- Total Pavement Width = 77'
 - **□** Four 12' Travel Lanes, One 12' Center Left Turn Lane
 - 8' Shoulders
- □ BICYCLE COMPATIBLE
- □ Partial Sidewalks, 5' 6' Wide in Excellent Condition
- □ 10' to 20' Grass Buffer between Sidewalk and Shoulder







FM 3345 — Cartwright Road

(Murphy to Texas Parkway)



- \Box AADT = 21,938 24,122 (2008)
- \Box Speed Limit = 40 MPH
- □ Total Pavement Width = 74'
 - **□** Four 12.5' Travel Lanes, 20' Median
 - **□** Four 12.5' Travel Lanes, Left Turn Only Lane with Median
 - No Shoulders

■ NOT BICYCLE COMPATIBLE

- 15' Travel Lane and/or 6' Shoulder needed for compatibility
- \Box Sidewalks, 4' 5' Wide in Mostly Fair Condition
- □ 0' to 7' Grass and/or Concrete Buffer between Sidewalk and Travel Lane







FM 2234 — Texas Parkway

(Cartwright to Buffalo Run)



- \square AADT = 30,864 (2008) 2 Intersection Average
- □ Speed Limit = 45 MPH
- □ Total Pavement Width = 64.5"
 - Four 12' Travel Lanes, One 11.5' Center Left Turn Lane
 - \square 2' 2.5' Shoulders



- 15' Travel Lane and/or 6' Shoulder needed for compatibility
- □ LIMITED SIDEWALK AVAILABLE







Intersection Assessment



- □ 11 intersections were assessed
- 3 major intersections (intersecting Study Area roadways)
 - Texas Parkway and Cartwright Road
 - Murphy Road and Cartwright Road
 - **■** Murphy Road and SH 6
- □ Performed bicycle and pedestrian counts at 3 intersections
 - Murphy Road and SH 6
 - **■** Murphy Road and El Dorado Boulevard
 - □ Cartwright Road and Quail Valley East Drive
- □ Performed an Origin and Destination Survey at Cartwright Road and Quail Valley East Drive







Opportunities/Deficiencies



- □ Opportunities:
 - Connect sidewalk network to trail network
 - Connect trail network to bicycle compatible roadways
 - **■** Establish bicycle routes
 - Increased commuting using bikeways and walkways
 - Relief of traffic congestion
 - Overall improved quality of life

- □ Deficiencies:
 - Sidewalk network gaps on Texas Parkway, Murphy Road and SH 6
 - Texas Parkway and Cartwright Road are not bicycle compatible
 - Upgrades needed to pedestrian facilities at intersections
 - **■** ADA compliant curb ramps
 - **■** Pedestrian countdown signals
 - Increased pedestrian phase timing





Potential Improvements



- □ Install sidewalk and buffer
- ☐ Modify roadway cross sections to accommodate bicycle traffic
- □ Modify signal timing and phasing to increase pedestrian phase
- Install crosswalks and ADA compliant curb ramps at signalized intersections
- Install pedestrian countdown signals
- Designate bicycle routes and/or install Share the Road signs on currently compatible roadways (SH 6 and Murphy Road)
- □ Road diet for Cartwright Road
- Streetscape improvements for Murphy Road, Cartwright Road and Texas Parkway











Questions



